

GL-1[®] Injectors

308953N

For Single-Line Parallel Automatic Lubrication Systems.



Important Safety Instructions

Read all warnings and instructions in this manual and related automatic lubrication system instruction manuals. Save all instructions.







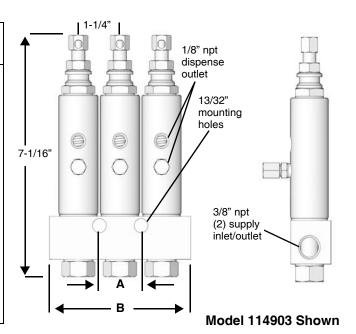






SKIN INJECTION HAZARD

Fluid from the injector, leaks, or ruptured components can inject fluid into your body and cause extremely serious injury, including the need for amputation. Fluid injected into the skin might look like just a cut, but it is a serious injury. Get immediate surgical treatment. Fluid splashed in the eyes or on the skin can also cause serious injury. The equipment may be pressurized already, or it could become pressurized by an automatic lube cycle initiated by Lubrication Controller (timer). Disconnect power to the timer, and disconnect the air supply to the pump module to ensure that the system is depressurized. See the pressure relief procedure in the pump manual incuded with your automatic lubrication system.



GL-1 Injector Models

Part No.	Description	Dimension A	Dimension B	Bare Manifold Part No.
114901	Injector, GL-1, one point		2.48 in. (63.0 mm)	114911
114902	Injector, GL-1, two point		3.00 in. (76.0 mm)	114912
114905 117206	Injector, GL-1, three point Injector, GL-1, four point Injector, GL-1, five point Injector, GL-1, six point	1.25 in. (31.7 mm) 2.50 in. (63.4 mm) 3.75 in. (95.1 mm) 4.99 in. (126.8 mm)	4.23 in. (107.5 mm) 5.47 in. (139.0 mm) 6.71 in. (170.5 mm) 7.90 in. (202.7 mm)	114913 114914 114915 118206
114909	Injector, GL-1, replacement			

Installation Instructions

Reference letters used in the following instructions, refer to Fig. 2.

- · Group injectors to minimize feed line length.
- Install injectors in locations that allow easy and safe servicing access.
- Install injectors in areas that minimize accidental injector damage by moving equipment.
- Injector outputs can be combined for a common bearing point with a large grease requirement but the output for a single injector cannot be split into multiple bearing points.
- Graco recommends using steel tubing instead of pipe and hose for supply lines when possible. Pipe is often contaminated with scale and requires proper cleaning prior to use. Hose lines expand under pressure which leads to longer pump cycle time.



 Relieve pressure. See Pressure Relief Procedure, in the pump instruction manual included with your automatic lubrication system.

- 2. Install injectors on a flat, hard surface using mounting brackets (a).
- 3. Connect fluid supply line (c) to injectors.

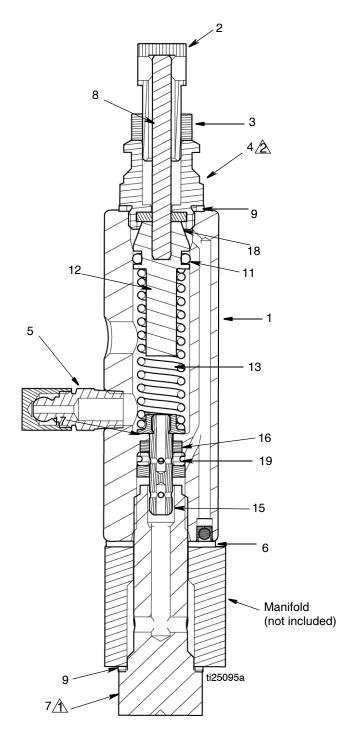
NOTICE

To prevent rupturing supply lines due to over-pressurizing the components, only use supply lines and fittings that meet or exceed the pressure rating of the injectors.

- 4. Connect lube point feed lines (b).
- Flush the system with low viscosity oil or mineral spirits to remove contamination introduced during installation.
- 6. Use a purge gun or run the pump until clean lubricant is dispensed at the end of each feed line to purge the system of flushing fluid or air.
- 7. Run the system at full output and verify that all injectors are cycling.
- 8. Adjust injector volume output. (See Volume Adjustment page 4.)
- 9. Connect feed lines to lubrication points.

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Injector Service Parts



Item	Description	Qty	Part No
1	Injector body	1	-
2	Adjusting screw	1	114906
3	Lock nut	1	114907
4	Packing housing	1	114908
5	Zerk fitting and cap assembly	1	114916
6	Copper gasket	1	114918
7	Adapter bolt (used on all manifold models)	1	-
8	Indicator pin	1	-
9	Steel gasket	2	*
11	Fluoroelastomer o-ring (PN 114997)	1	*
12	Displacement piston	1	*
13	Compression spring	1	*
15	Plunger	1	*
16	Fluoroelastomer packing	1	*
17	Fluoroelastomer packing	1	*
18	Fluoroelastomer packing	1	*
19	Inlet valve	1	*

[★] Included in Injector Repair Kit 241234 only

Available Kits

Use Only Genuine Graco Repair Parts

Graco Part No. 115119 Plastisol Injector Cover (see page 3 for installation instructions)

Graco Part No. 115120 Crossover Kit (for connecting the outlets of injectors for increased output)

Graco Part No. 241234 Injector Repair Kit (See Kit 241234 parts in Injector Service Parts list.)

1 Torque to 50-55 ft-lbs (68-74.5 N.m)

A Torque to 35-40 ft-lbs (47-54 N.m)

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Injector Cover Kit 115119

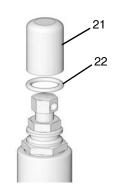
Plastisol cap for Graco GL-1 Injectors

Item	Description	Qty
21	Plastisol cap	1
22	O-ring	1

Installation Instructions

- 1. Apply a light coating of transparent lubricant to the inside of cap (21).
- Slide cap (21) over the indicator stem of the injector far enough to cover the groove in the piston plug.
- Slide the o-ring (22) down over the cap to the groove in the piston plug, forcing the cover into the groove to form a seal.





Volume Adjustment

*Maximum adjustment setting is when adjusting screw (2) is just making contact with the indicator pin (8) with no inlet pressure. Turn adjusting screw clockwise (in), to reduce output. To adjust, loosen lock nut (3) and turn adjusting screw (2) the number of turns indicated on the GL-1 Volume Adjustment Table to obtain the desired volume. Tighten lock nut (3) when desired volume setting is reached.

GL-1 Volume Adjustment Table						
Description	Number of	Volume				
Description	Turns	in. ³	СС			
Maximum Adjustment*	0	0.080	1.31			
360° Clockwise Turn	1	0.071	1.16			
360° Clockwise Turn	2	0.062	1.02			
360° Clockwise Turn	3	0.053	0.87			
360° Clockwise Turn	4	0.044	0.72			
360° Clockwise Turn	5	0.035	0.57			
360° Clockwise Turn	6	0.026	0.43			
360° Clockwise Turn	7	0.017	0.28			
Minimum Adjustment	8	0.008	0.13			

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Technical Data

Maximum operating pressure3500 psi (24 MPa, 241 bar)Suggested operating pressure2500 psi (17 MPa, 172 bar)Reset pressure600 psi (4.1 MPa, 41 bar)Output volume per cycleadjustable*: 0.008 to 0.08 in.3

Recommended fluids N.L.G.I. #2 grease down to 32° F (0° C)

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Graco warrants all equipment referenced in this document which is manufactured by Graco and bearing its name to be free from defects in material and workmanship on the date of sale to the original purchaser for use. With the exception of any special, extended, or limited warranty published by Graco, Graco will, for a period of twelve months from the date of sale, repair or replace any part of the equipment determined by Graco to be defective. This warranty applies only when the equipment is installed, operated and maintained in accordance with Graco's written recommendations.

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This warranty is conditioned upon the prepaid return of the equipment claimed to be defective to an authorized Graco distributor for verification of the claimed defect. If the claimed defect is verified, Graco will repair or replace free of charge any defective parts. The equipment will be returned to the original purchaser transportation prepaid. If inspection of the equipment does not disclose any defect in material or workmanship, repairs will be made at a reasonable charge, which charges may include the costs of parts, labor, and transportation.

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All written and visual data contained in this document reflects the latest product information available at the time of publication.

Graco reserves the right to make changes at any time without notice.

For patent information, see www.graco.com/patents.

Original instructions. This manual contains English. MM 308953

Graco Headquarters: Minneapolis International Offices: Belgium, China, Japan, Korea

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